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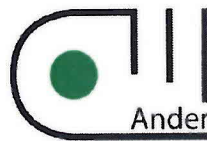
Bristol-Myers Squibb Manufacturing Company

FILE COPY

***RCRA Corrective Action Program
Quarterly Progress Report No. 61
4th Quarter 2015***

***Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico***

January 2016



Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

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- B. Vapor Intrusion Sample Analytical Results (on CD)
- C. 3rd Quarter 2015 Groundwater Laboratory Analytical Reports, Vapor Intrusion Laboratory Analytical Reports, Groundwater Field Data Sheets, Data Validation Reports (on CD)

1.0 Introduction

Bristol-Myers Squibb Manufacturing Company (BMSMC) is currently implementing a RCRA Corrective Action Program at its pharmaceutical manufacturing facility located in Humacao, Puerto Rico. The program is being conducted in accordance with the provisions of Module III of BMSMC's Final RCRA Hazardous Waste Treatment and Storage Permit No. PRD090021056.

This quarterly progress report has been prepared in accordance with the provisions of Module III, Condition B.8 (a) of the Permit. The report covers the period October 1, 2015 through December 31, 2015. All available information required by Condition B.8 (a)(i) through (viii) is provided below.

The RCRA Corrective Action Program addresses three solid waste management units (SWMUs) at which impacts to soil and/or groundwater have been detected. The status of the corrective action program at each SWMU is briefly described below.

- Former Underground Tank Farm (SWMU #3) - This SWMU consisted of 26 underground storage tanks for the storage of raw materials, kerosene and spent solvents for reclamation. BMSMC submitted a CMS Report to USEPA in June 2007 that documented the improving groundwater quality and provided recommendations for the Final Corrective Measure. An updated CMS report was submitted to the USEPA in July 2011. The recommended corrective measure for groundwater is Monitored Natural Attenuation (MNA). The recommended corrective measure for soil is to limit new excavations to a maximum depth of two feet below the ground surface and to institute appropriate land use restrictions.

BMSMC conducted quarterly groundwater sampling at seven wells at this SWMU from March 2000 to December 2010 as part of the site-wide monitoring program. On March 12, 2010 BMSMC submitted a request for a permit modification to reduce the groundwater monitoring program. Based on USEPA comments, BMSMC submitted a revised request for a permit modification to the USEPA on July 20, 2010. BMSMC received approval for the permit modification from the USEPA on December 29, 2010. The reduction in groundwater monitoring as detailed in the permit modification was initiated during the March 2011 groundwater sampling event. As per the permit modification, monitoring wells at SWMU #3 are sampled semiannually. Semiannual sampling started with the March 2011 sampling event.

Monitoring wells MW-17 and MW-18, installed during the 2011 Supplemental Field Investigation, were sampled on a voluntary basis from June 2011 to June 2012. A request to include monitoring wells MW-17 and MW-18 into the SWMU #3 groundwater monitoring network was included in the Class 2 Permit Modification Request filed with the USEPA on May 16, 2012. On August 14, 2012, BSMSC received approval for the Class 2 Permit Modification incorporating monitoring wells MW-17 and MW-18 into the groundwater monitoring network. Monitoring wells MW-17 and MW-18 were incorporated into the groundwater monitoring network beginning with the September 2012 groundwater sampling event.

- Former Brule Incinerator (SWMU #9) - This SWMU is the site of a former hazardous waste incinerator. The interim corrective measure (ICM) consisted of excavation of petroleum impacted soil. The *Interim Corrective Measure Implementation Report* was submitted to USEPA in February 2002. This report was approved by USEPA in a letter dated March 28, 2002.
- Building 5 Area (SWMU #20) - This SWMU encompasses an area adjacent to and west of Building 5. BSMSC submitted a revised CMS Report to USEPA in June 2007 that provided recommendations for the Final Corrective Measure. The recommended corrective measure included a combination of source area excavation and MNA. An updated CMS report was submitted to the USEPA in July 2011. The recommended corrective measure for groundwater is MNA. The recommended corrective measure for soil is to limit new excavations to a maximum depth of two feet below the ground surface and to institutionalize appropriate land use restrictions.

BSMSC implemented an Interim Corrective Measure (ICM) to address source area soils in the Building 5 Area. The ICM Work Plan, which included four phases of excavation, treatment, and reuse or offsite disposal of impacted soil, was submitted to USEPA in September 2003 and approved by USEPA in December 2004. Four phases of soil excavation and treatment were conducted between 2006 and 2011 during which approximately 7,400 cubic yards of soil was excavated and treated. Each of the excavation areas (Phase 1 through Phase 4; designated as Areas A through D) are shown on **Figure 1**.

On August 14, 2012, BSMSC received approval for a Class 2 Permit Modification for Temporary Authorization to operate a temporary unit (TU) for the ex-situ treatment of contaminated soil excavated from Area E and the remaining unexcavated soil from Area D that was left in place during the ICM. In addition, the USEPA approved the May 2012

Temporary Unit Operations and Maintenance Plan (O&M Plan) and the May 2012 *Building 5 Area Interim Corrective Measure Work Plan Area E*. Area E ICM soil removal activities were conducted from February 6, 2013 through March 2, 2013. Approximately 1,728 cubic yards of impacted soil were removed and placed into the Biopile for treatment. The Area E excavation area is shown on **Figure 1**.

BMSMC conducted quarterly groundwater sampling at the SWMU #20 from March 2000 to December 2010 as part of the site-wide monitoring program. As per the December 2010 approved permit modification, BMSMC initiated a reduced groundwater monitoring program in March 2011. The reduced groundwater monitoring program includes quarterly sampling at seven wells and semiannual sampling at 13 wells. Semiannual sampling was initiated in March 2011. Semiannual samples are collected in March and September.

On August 14, 2012, BMSMC received approval for the Class 2 Permit Modification to reactivate monitoring well D-1. Semiannual sampling of monitoring well D-1 was initiated in September 2012.

On March 13, 2013, BMSMC received conditional approval of the Class 2 Permit Modification Request for the closure of three existing monitoring wells (G-1R2, D-1, and E-1) and the installation of three replacement monitoring wells (G-1R3, D-1R, and E-1R). Conditional approval of the Class 2 Modification Request was granted pending a determination that replacement well G-1R3 complies with the objectives of the groundwater monitoring program and effectively captures the Building 5 COCs.

On September 18, 2013, BMSMC, in response to the conditional approval of the March 13, 2013 Class 2 Permit Modification Request, submitted a technical memorandum to the USEPA demonstrating the effectiveness and adequacy of the replacement monitoring wells D-1R, E-1R, and G-1R3 to capture the Building 5 COCs.

On May 5, 2014, BMSMC submitted a Class 1 Permit Modification requesting an extension of 45 days to remove hazardous soil, and the remaining non-hazardous soil that met the cleanup criteria as provided in BMSMC Permit Temporary Unit Operations and Maintenance Plan, beyond the previously permitted 90 day removal period.

On June 19, 2014, BMSMC received final approval of the Class 2 Permit Modification Request for the closure of three existing monitoring wells (G-1R2, D-1, and E-1) and the installation of three replacement monitoring wells (G-1R3, D-1R, and E-1R).

On November 14, 2014, BMSMC received conditional approval of the *Building 5 Soil Vapor Investigation Work Plan*. The Work Plan was conditionally approved by the USEPA pending the receipt of a revised work plan that addressed minor comments within 45 days of the approval letter. The revised Work Plan was submitted to the USEPA on December 4, 2014.

On February 23, 2015, BMSMC received Comments on the Building 5 Area Source Removal Phase 5 Implementation Report from the USEPA. The comment letter stated that BMSMC must submit a revised *Building 5 Area Source Removal Phase 5 Implementation Report* within 45 days of February 23, 2015. The revised *Building 5 Area Source Removal Phase 5 Implementation Report* was submitted to the USEPA on April 8, 2015.

- Site-Wide

On March 14, 2013, BMSMC received the approved USEPA RCRA Permit Application Technical and Administrative Completeness Determination Letter for the May 2010 RCRA Part B Permit Application.

On February 26, 2015, BMSMC received Comments on the Corrective Measures Study Report (July 2011) from the USEPA. In the comment letter, the USEPA stated that BMSMC must submit a revised *Corrective Measures Study Report* within 60 days of February 26, 2015.

On June 3, 2015, BMSMC received a letter from the USEPA that granted a time extension to respond to the Comments on the Corrective Measures Study. In the time extension letter, the USEPA granted a time extension until July 24, 2015 for the submittal of a revised *Corrective Measures Study Report*.

On July 22, 2015, BMSMC submitted the *Response to USEPA Comments on July 2011 CMS Report* to the USEPA. The Response to USEPA Comments proposed additional work in each of the three SWMUs (FTF, Brule, and Building 5 Areas) to address USEPA comments on the July 2011 CMS.

2.0 Description of Work Completed

A description of corrective action activities completed between October 1, 2015 and December 31, 2015 is presented in this section.

2.1 Site-Wide

A preliminary review of historical sampling results of the three SWMUs covered under the Corrective Action Module of the permit was recently performed, including a review of all detected target compounds provided as raw data by the laboratory. The analytical data reviewed has been provided in the quarterly reports submitted to the USEPA in past years. This review has initially identified certain additional constituents that are not currently being addressed under the Corrective Action Program.

BMSMC requested the analytical laboratory to complete a review of the raw analytical data for the September 2015 groundwater sampling event and to re-issue the analytical report to include the concentration of all SW-846 Method 8260C target compounds. BMSMC is currently in the process of reviewing and evaluating the re-issued analytical data report and will take the necessary next steps according to the Permit requirements.

2.2 Former Tank Farm Area

Results of the 3rd Q 2015 semiannual groundwater sampling event were validated in accordance with USEPA Region 2 Guidelines. Locations of the groundwater monitoring wells are presented on **Figure 2**. The re-issued laboratory analytical results are provided in **Attachment A**.

In October 2015, one co-located sub-slab soil gas and one indoor air sample (plus duplicate samples) were collected in Building 8 as part of the FTF Area vapor intrusion evaluation. An upwind ambient air sample was also collected. Samples were collected in accordance with the approved 2012 *Building 5 Soil Vapor Investigation Work Plan* and analyzed for the complete USEPA Compendium Method TO-15 target compound list plus methane. Analytical results were validated in accordance with USEPA Region 2 guidelines. Sample analytical results are provided on CD in **Attachment B**.

Electronic files including full laboratory analytical reports of the groundwater and vapor intrusion samples, data validation reports, and field data sheets are included on CD in **Attachment C**.

The 4th Q 2015 groundwater sampling was conducted in December 2015. This was a quarterly sampling event and the FTF Area monitoring wells were not scheduled for sampling.

2.3 Brule Area

No work was conducted at this SWMU during the reporting period.

2.4 Building 5 Area

Results of the 3rd Q 2015 semiannual groundwater sampling event were validated in accordance with USEPA Region 2 guidelines. Locations of the groundwater monitoring wells are presented on **Figure 3**. The re-issued laboratory analytical results are provided in **Attachment A**.

In October 2015, six indoor air samples including one duplicate sample and five co-located sub-slab soil gas samples¹, including one duplicate sample, were collected in Building 30 as part of the Building 5 Area vapor intrusion evaluation. Three co-located sub-slab soil gas and indoor air samples were also collected in Building 42. In addition, an upwind ambient air sample was also collected. Samples were collected in accordance with the approved 2012 *Building 5 Soil Vapor Investigation Work Plan* and analyzed for the complete USEPA Compendium Method TO-15 target compound list plus methane. Analytical results were validated in accordance with USEPA Region 2 guidelines. Sample analytical results are provided on CD in **Attachment B**.

Electronic files including full laboratory analytical reports of the groundwater and vapor intrusion samples, data validation reports, and field data sheets are included on CD in **Attachment C**.

The 4th Q 2015 groundwater sampling event was conducted in December 2015. This was a quarterly event and groundwater samples were collected from seven monitoring wells (UP-1, A-1R4, A-2R2, G-1R3, S-31R2, S-32, and S-33). Locations of the groundwater monitoring wells are presented on **Figure 3**. Results from this sampling event will be included in the 1st Q 2016 Progress Report.

¹ A sub-slab soil gas sample was not collected at one indoor air sample location due to perched water below the floor slab.

3.0 Summary of Findings

This section presents a summary of findings based on groundwater samples collected during the 3rd Q 2015 and validated during the 4th Q 2015.

3.1 Former Tank Farm Area

The 3rd Q 2015 groundwater sample results from the FTF Area were compared to the USEPA MCLs or the June 2015 USEPA Regional Screening Levels (RSLs) for tap water in cases where MCLs do not exist. MCLs and the June 2015 RSLs for tap water for the FTF Area are provided in the table below.

Parameter	MCL (µg/L)	Tap Water RSL ² (µg/L)
Acetone	---	14,000
Chloromethane	---	190
MIBK	---	1,200
Methylene Chloride	5.0	---
Xylenes (Total)	10,000	---

The 3rd Q 2015 groundwater sampling results for MW-3, MW-5, MW-7, MW-13, MW-14, MW-15, MW-16, MW-17, and MW-18 did not identify any COCs in excess of MCLs or tap water-based RSLs for tap water. The concentration of ethylbenzene and toluene in groundwater samples collected in MW-17 and MW-18 were also less than their MCL (700 µg/L and 1,000 µg/L, respectively). This is the 13th consecutive sampling event in which COC concentrations as well as ethylbenzene and toluene in MW-17 and MW-18 were below MCLs or tap water-based RSLs.

In addition to the FTF COCs, samples collected in MW-12 were also analyzed for ethylbenzene, toluene, and PAHs. The concentrations of ethylbenzene and toluene in MW-12 were less than their respective MCLs. The concentration of naphthalene exceeded its tap water-based RSL (0.17 µg/L). The concentration of all other PAHs were either non-detect or less than their respective MCL or tap water-based RSL.

3.2 Brule Area

Groundwater samples were not collected from the Brule Area during the 3rd Q 2015.

² USEPA RSLs updated June 2015

3.3 Building 5 Area

The 3rd Q 2015 groundwater sample results from the Building 5 Area were compared to the USEPA MCLs or the June 2015 USEPA Regional Screening Levels (RSLs) for tap water in cases where MCLs do not exist. MCLs and the June 2015 RSLs for tap water for the Building 5 Area are provided in the table below.

Parameter	MCL (µg/L)	Tap Water RSL³ (µg/L)
Benzene	5	--
Ethylbenzene	700	---
Toluene	1,000	---
Xylenes (total)	10,000	---
Acetone	---	14,000
MIBK	---	1,200
Isopropyl Alcohol	---	410
Methanol	---	20,000

The 3rd Q 2015 groundwater sampling results identified the COCs ethylbenzene, xylenes, and isopropyl alcohol at concentrations in excess of MCLs or RSLs. MCLs for one or more COCs were exceeded in in-plume wells A-1R4 (ethylbenzene), G-1R3 (ethylbenzene and xylene), S-31R (ethylbenzene), and S-32 (ethylbenzene and xylene).

The concentrations of acetone, benzene, ethylbenzene, MIBK, toluene, and xylene within the Area E soil removal area remain significantly less than their respective pre-removal concentrations. Overall concentrations of COCs in Building 5 Area monitoring wells located downgradient of Area E were consistent with past events.

4.0 Summary of Changes Made

- No changes to the Corrective Action Program were made during this reporting period.

5.0 Summary of Public Participation Activities

- No public participation activities occurred during the 4th Q 2015.

³ USEPA RSLs updated June 2015

6.0 Summary of Problems Encountered

- There were no problems encountered relating to the RCRA Corrective Action Program during this reporting period.

7.0 Changes in Personnel

- There were no changes in personnel during this reporting period.

8.0 Projected Work for Next Reporting Period

Work scheduled to be performed during the three month period from January 1, 2016 through March 31, 2016 is described in this section.

8.1 Site-Wide

- The review of the re-issued September 2015 laboratory analytical groundwater data will be finalized and any necessary steps required by the Permit will be completed.

8.2 Former Tank Farm Area

- The 1st Q 2016 semiannual groundwater sampling event will be conducted in March 2016.

8.3 Brule Area

- No activities are planned for the Brule Area during the next reporting period.

8.4 Building 5 Area

- The 4th Q 2015 groundwater results will be validated.
- The 1st Q 2016 semiannual groundwater sampling event will be conducted in March 2016.

9.0 Additional Documentation

- No additional documents were prepared during this reporting period.

Figures

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LEGEND

- S-36
MONITORING WELL
- A
EXCAVATION AREA

G-1R3

S-29R



S-31R

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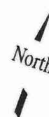
S-33

S-34

S-37

S-30

S-35



Scale: As Shown

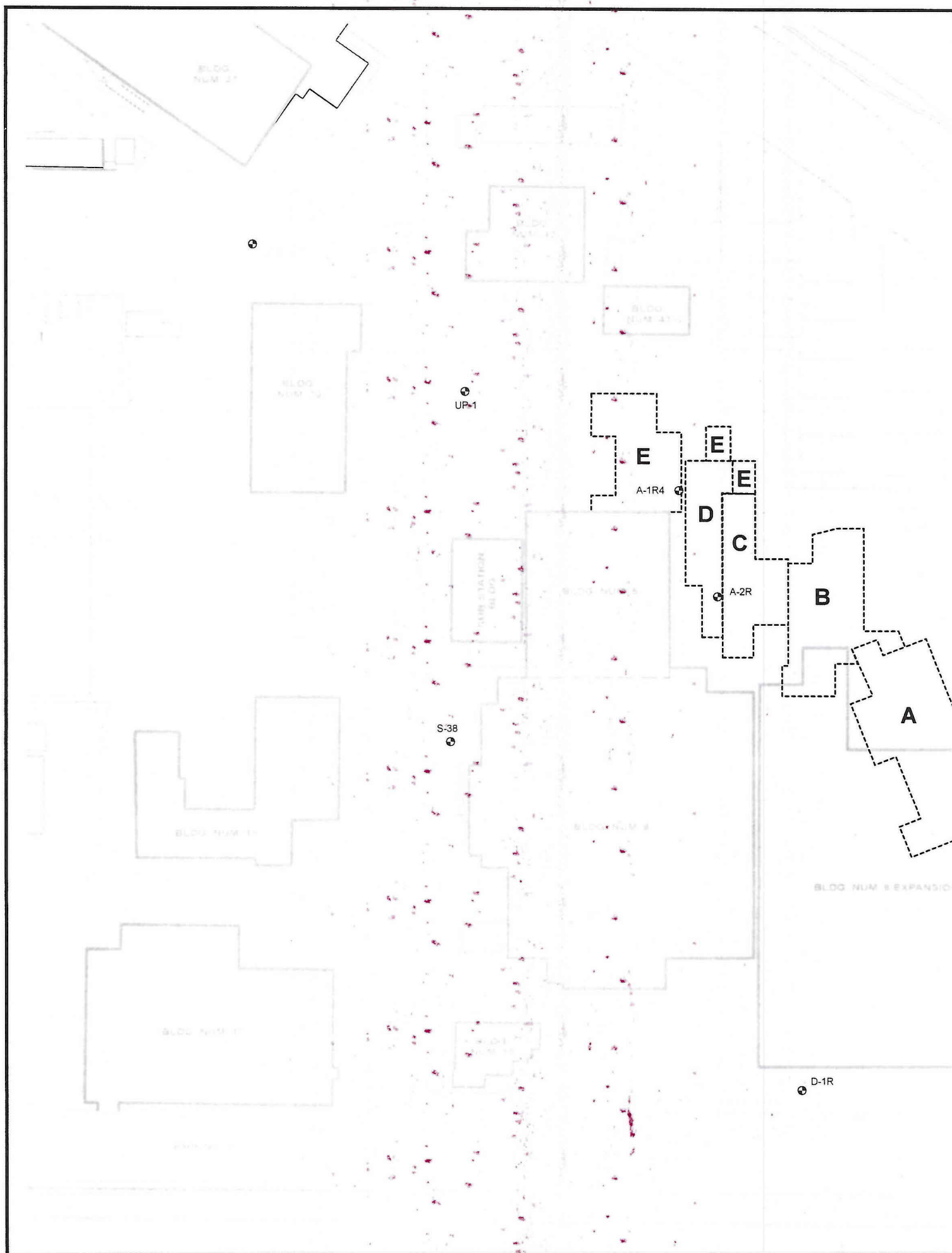
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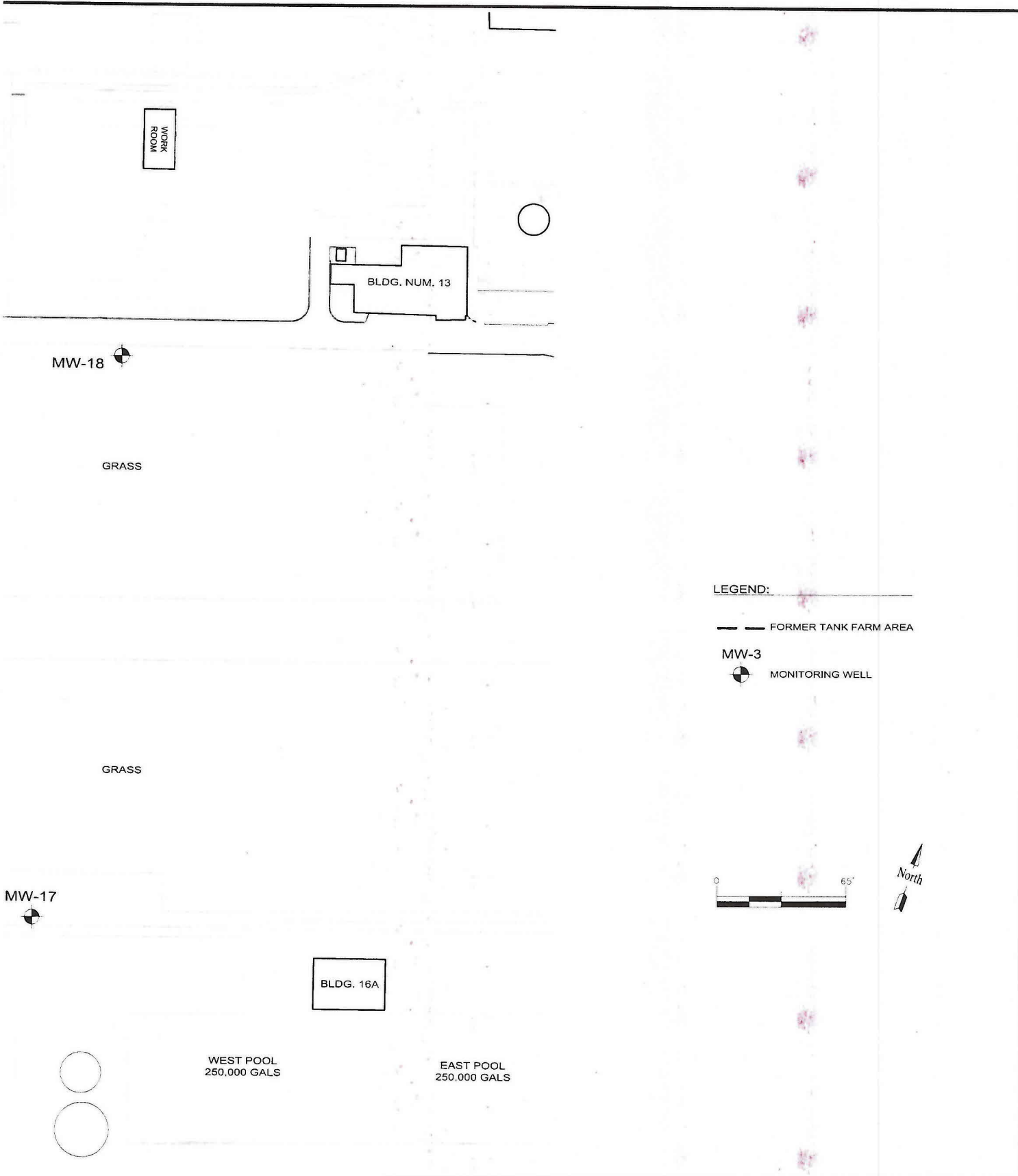
ANDERSON - MULHOLLAND
& ASSOCIATES, INC
WHITE PLAINS, NEW YORK

Figure 1

**Soil Excavation Areas
Building 5 Area**

Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico





Scale	Date	<p>Figure 2</p> <p>Location of Groundwater Monitoring Wells</p> <p>Former Tank Farm Area</p>
	Oct 2015	
<p>ANDERSON - MULHOLLAND & ASSOCIATES, INC.</p> <p>WHITE PLAINS, NEW YORK</p> <p>SAN JUAN, PUERTO RICO</p>		<p>Bristol-Myers Squibb Manufacturing Company</p> <p>Humacao, Puerto Rico</p>

MW-16

TANK

ABOVE GROUND LP TANKS

STORAGE SHACK
WOOD BLDG.

STREET-E

CONCRETE SLAB

MW-7

FORMER
TANK FARM
(SYSTEM 2)

CONCRETE
SLAB

MW-12

MW-3

FORMER
TANK FARM
(SYSTEM 1)

FORMER
SOLVENT RECOVERY
AREA

MW-13

CONCRETE SLAB

BLDG.
NUM. 11

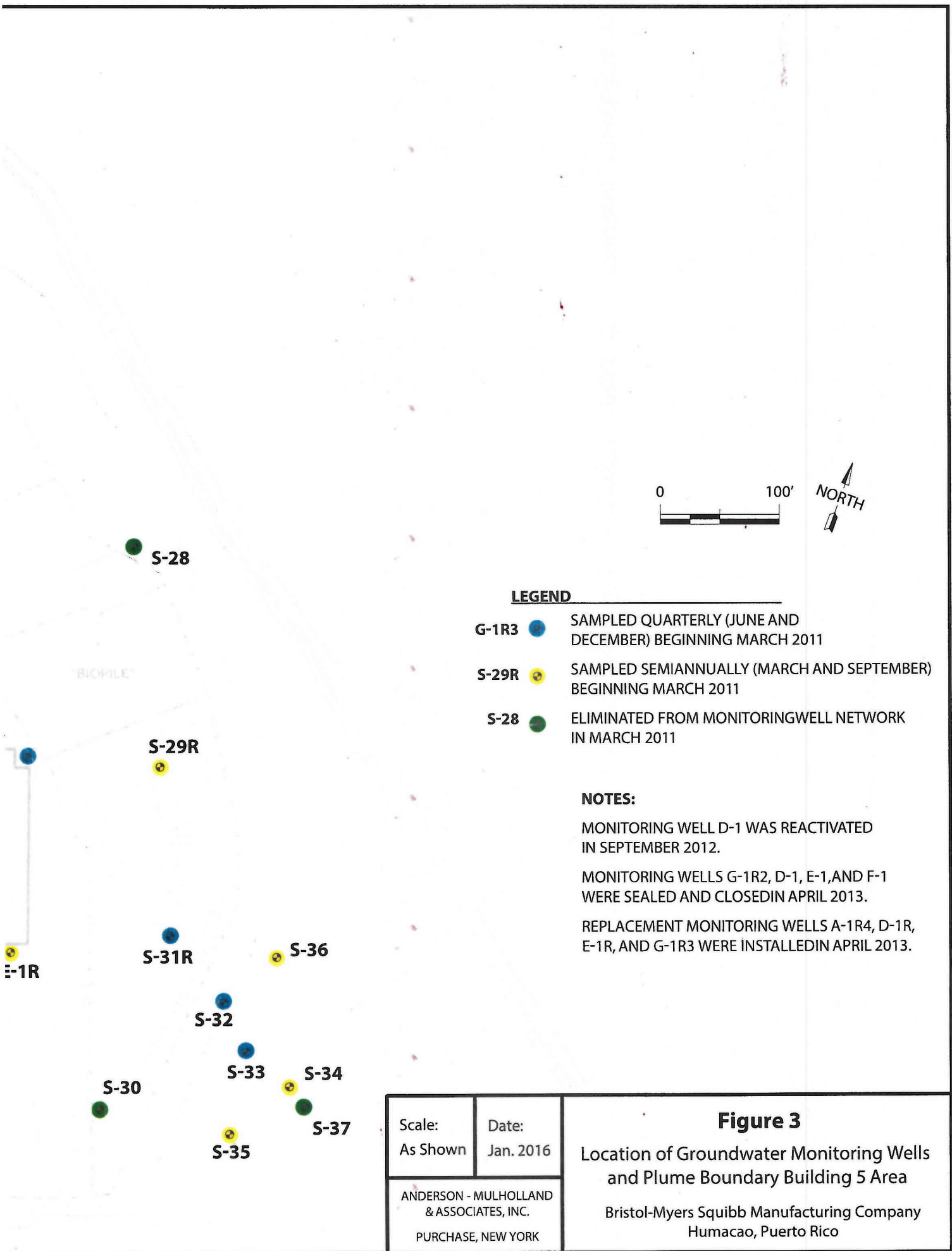
MW-5

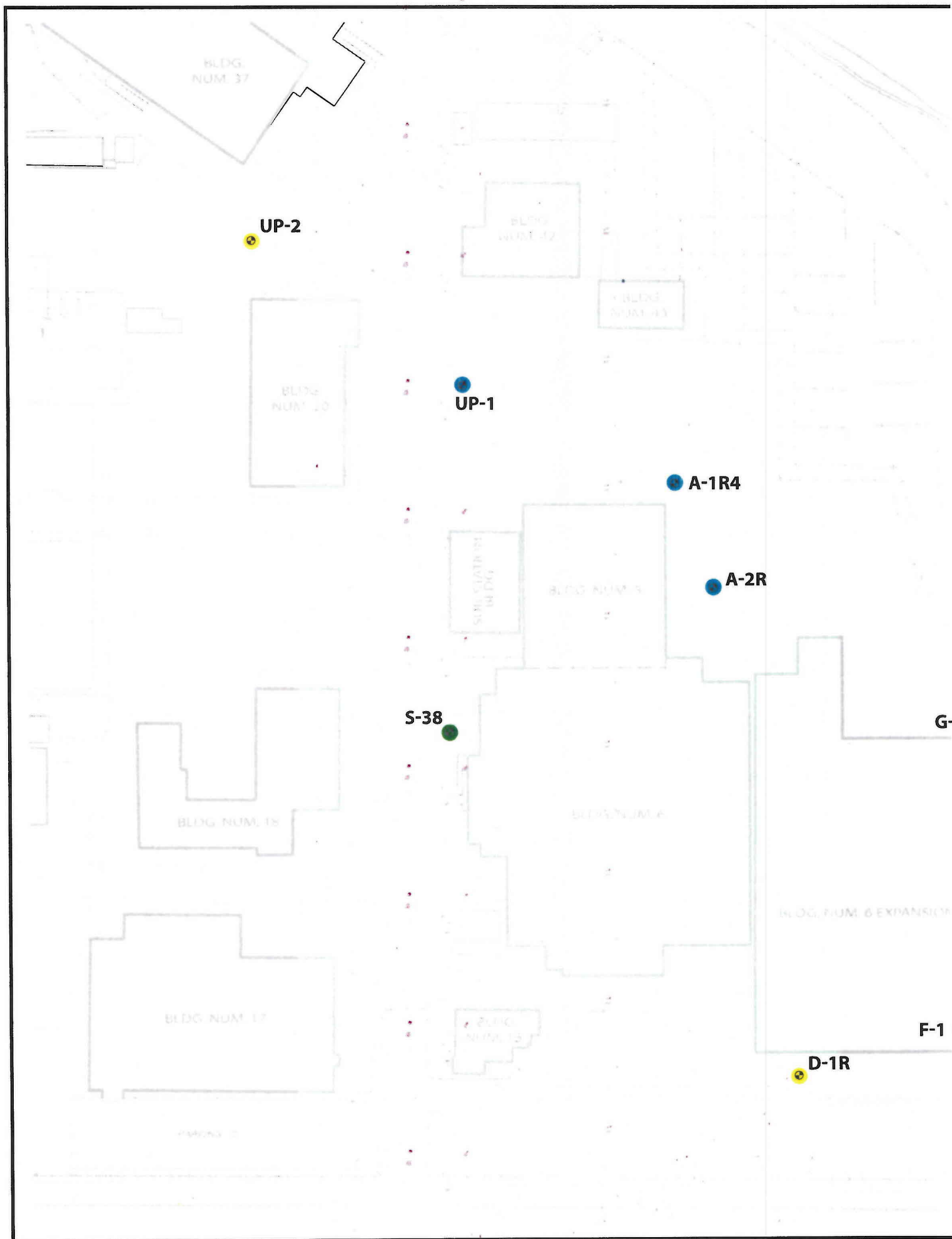
MW-

BLDG. NUM. 8

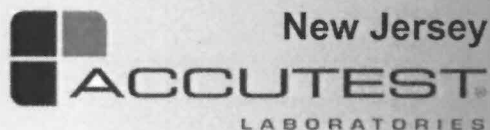
CONCRETE SLAB

MW-





Attachment A
Groundwater Sampling Results



12/28/15

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Former Tank Farm, PR

SM02.00.02

Accutest Job Number: JC3254R

Sampling Dates: 09/03/15 - 09/09/15

Report to:

Anderson, Mulholland & Associates

ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: 119



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in cursive script that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST 103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (I. A B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC3254-1R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	MW-15
JC3254-2R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	MW-17
JC3254-3R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	MW-5
JC3254-4R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	MW-14
JC3254-5R	09/03/15	00:00 NMR	09/05/15	AQ	Trip Blank Water	QC TB 030915
JC3254-6R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	S-35
JC3254-7R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	S-35D
JC3254-8R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	S-36
JC3254-9R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	S-32
JC3254-10R	09/03/15	00:00 NMR	09/05/15	AQ	Ground Water	S-33
JC3254-11R	09/04/15	17:38 NMR	09/10/15	AQ	Ground Water	MW-18
JC3254-12R	09/04/15	18:41 NMR	09/10/15	AQ	Ground Water	MW-3
JC3254-13R	09/08/15	13:05 NMR	09/10/15	AQ	Ground Water	MW-13

Sample Summary

(continued)

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC3254-14R	09/08/15	13:09 NMR	09/10/15	AQ	Ground Water	MW-13D
JC3254-15R	09/08/15	14:40 NMR	09/10/15	AQ	Ground Water	MW-7
JC3254-16DR	09/08/15	15:47 NMR	09/10/15	AQ	Water Dup/MSD	MW-16 MSD
JC3254-16R	09/08/15	15:42 NMR	09/10/15	AQ	Ground Water	MW-16
JC3254-16SR	09/08/15	15:45 NMR	09/10/15	AQ	Water Matrix Spike	MW-16 MS
JC3254-17R	09/09/15	15:42 NMR	09/10/15	AQ	Ground Water	MW-12
JC3254-18R	09/09/15	15:51 NMR	09/10/15	AQ	Ground Water	MW-12D
JC3254-19R	09/09/15	15:51 NMR	09/10/15	AQ	Trip Blank Water	QC TB 090915
JC3254-20R	09/04/15	12:46 NMR	09/10/15	AQ	Ground Water	A-IR(4)
JC3254-21R	09/04/15	13:39 NMR	09/10/15	AQ	Ground Water	A-2R(2)
JC3254-22R	09/04/15	14:32 NMR	09/10/15	AQ	Ground Water	VP-1
JC3254-23R	09/04/15	16:16 NMR	09/10/15	AQ	Ground Water	VP-2
JC3254-24R	09/07/15	12:40 NMR	09/10/15	AQ	Ground Water	D-1R

**Sample Summary**

(continued)

Anderson, Mulholland & Associates

Job No: JC3254R

BMSMC, Former Tank Farm, PR
Project No: SM02.00.02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC3254-25DR	09/07/15	13:51 NMR	09/10/15	AQ	Water Dup/MSD	S-31R(2) MSD
JC3254-25R	09/07/15	13:42 NMR	09/10/15	AQ	Ground Water	S-31R(2)
JC3254-25SR	09/07/15	13:46 NMR	09/10/15	AQ	Water Matrix Spike	S-31R(2) MS
JC3254-26R	09/07/15	14:48 NMR	09/10/15	AQ	Ground Water	S-29R
JC3254-27R	09/07/15	16:23 NMR	09/10/15	AQ	Ground Water	E-1R
JC3254-28R	09/07/15	17:31 NMR	09/10/15	AQ	Ground Water	G-1R(3)
JC3254-29R	09/09/15	13:11 NMR	09/10/15	AQ	Ground Water	S-34
JC3254-30R	09/09/15	10:58 NMR	09/10/15	AQ	Equipment Blank	EB090915
JC3254-31R	09/09/15	15:51 NMR	09/10/15	AQ	Ground Water	TB090915

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Anderson, Mulholland & Associates

Job No JC3254R

Site: BMSMC, Former Tank Farm, PR

Report Date 12/24/2015 11:55:11 A

Between 09/05/2015 and 09/10/2015, 29 Sample(s), 2 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 3.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC3254R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ	Batch ID: V2B5985
<ul style="list-style-type: none"> ■ All samples were analyzed within the recommended method holding time. ■ All method blanks for this batch meet method specific criteria. ■ Sample(s) JC3137-3MS, JC3137-3MSD were used as the QC samples indicated. ■ Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch. ■ Blank Spike Recovery(s) for Tert Butyl Alcohol are outside control limits. Outside in house control limits. ■ Matrix Spike / Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits. ■ Matrix Spike Duplicate Recovery(s) for Trichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount. ■ JC3254-5R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request. ■ JC3254-5R for Tert Butyl Alcohol: Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request. ■ JC3254-4R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request. ■ JC3254-4R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request. ■ JC3254-4R for Tert Butyl Alcohol: Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request. ■ JC3254-2R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request. ■ JC3254-5R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request. ■ RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3137-3MSD. Outside control limits due to matrix interference. ■ JC3254-2R for Tert Butyl Alcohol: Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request. ■ JC3254-2R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request. 	
Matrix: AQ	Batch ID: V2B5988

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3254-25RMS, JC3254-25RMSD were used as the QC samples indicated.

Thursday, December 24, 2015

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Volatiles by GCMS By Method SW846 8260C

Matrix: AQ	Batch ID: V2B5988
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- Sample(s) JC3254-24R have compounds reported with "E" qualifiers indicating estimated value exceeding calibration range. Estimated value, this compound was re-logged outside the holding time per client's request.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JC3254-24R for 1,4-Dioxane: Estimated value, this compound was re-logged outside the holding time per client's request.

Matrix: AQ	Batch ID: V2B5989
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3254-16RMS, JC3254-16RMSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3254-16RMSD. Outside control limits due to matrix interference
- JC3254-19R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-16R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-17R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-18R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-3R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ	Batch ID: V2B5990
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3538-8MS, JC3538-8MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive reported in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- JC3254-10R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-13R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ	Batch ID: V2B5992
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- All samples were analyzed within the recommended method holding time.
- Sample(s) JC3254-20RMS, JC3254-20RMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Volatiles by GCMS By Method SW846 8260C

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Matrix: AQ	Batch ID: V2B5992
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- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3254-20RMSD. Outside control limits due to matrix interference.
- JC3254-20R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-28R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-11R for Ethanol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ	Batch ID: V2B5994
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- All samples were analyzed within the recommended method holding time.
- Sample(s) JC3669-14MS, JC3669-14MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,2-Dichloroethane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for IsoAmyl Alcohol are outside control limits. Outside control limits. No associated sample required/reported for this compound.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3669-14MSD. Outside control limits due to matrix interference.
- JC3254-14R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-14R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-15R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-15R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-12R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-12R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ	Batch ID: V2B5996
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3795-7MS, JC3795-7MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2-Dichloroethane, IsoAmyl Alcohol are outside control limits. High percent recoveries and no associated positive reported in the QC batch.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,2-Dichloroethane, IsoAmyl Alcohol are outside control limits. Outside in house control limits.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample JC3795-7MSD. Outside control limits due to matrix interference.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ	Batch ID: V2B5996
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- JC3254-9R for Naphthalene: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Matrix: AQ	Batch ID: V2D6208
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC3254-6MS, JC3254-7DUP were used as the QC samples indicated.
- JC3254-1R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-6R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-1R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-1R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-8R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-8R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-8R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-7R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-7R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-7R for Di-Isopropyl ether: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-6R for n-Butyl Alcohol: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
- JC3254-6R for Tetrahydrofuran: Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

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Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

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Lab Sample ID	Client Sample ID	Result/ Analyte Qual	RL	MDL	Units	Method
JC3254-1R MW-15						
n-Butylbenzene		2.1	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		2.2	2.0	0.21	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.39 J	1.0	0.19	ug/l	SW846 8260C
Isopropylbenzene		42.6	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		0.45 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		22.0	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		17.7	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		466	10	2.8	ug/l	SW846 8260C
Tetrahydrofuran ^a		3.5 J	10	1.4	ug/l	SW846 8260C
Xylene (total)		0.21 J	1.0	0.17	ug/l	SW846 8260C
JC3254-2R MW-17						
n-Butylbenzene		0.45 J	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		0.73 J	2.0	0.21	ug/l	SW846 8260C
Isopropylbenzene		4.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.26 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		2.1	2.0	0.21	ug/l	SW846 8260C
JC3254-3R MW-5						
Acetone		6.1 J	10	3.3	ug/l	SW846 8260C
n-Butylbenzene		0.44 J	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		0.47 J	2.0	0.21	ug/l	SW846 8260C
Chlorobenzene		0.46 J	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.68 J	1.0	0.19	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.30 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		3.5	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		28.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		10.4	1.0	0.24	ug/l	SW846 8260C
Naphthalene ^a		0.20 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene		10.3	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		333	10	2.8	ug/l	SW846 8260C
Toluene		0.51 J	1.0	0.16	ug/l	SW846 8260C
m,p-Xylene		10.9	1.0	0.38	ug/l	SW846 8260C
o-Xylene		0.51 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		11.4	1.0	0.17	ug/l	SW846 8260C
JC3254-4R MW-14						
Chlorobenzene		0.77 J	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.43 J	1.0	0.19	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.30 J	1.0	0.27	ug/l	SW846 8260C

Summary of Hits

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Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropylbenzene		0.31 J	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		0.29 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.47 J	1.0	0.24	ug/l	SW846 8260C
m,p-Xylene		0.61 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		0.61 J	1.0	0.17	ug/l	SW846 8260C

JC3254-5R QC TB 030915

No hits reported in this sample.

JC3254-6R S-35

1,4-Dioxane	833	130	41	ug/l	SW846 8260C
Ethyl Ether	0.66 J	2.0	0.55	ug/l	SW846 8260C
Methyl Tert Butyl Ether	1.8	1.0	0.24	ug/l	SW846 8260C

JC3254-7R S-35D

1,4-Dioxane	832	130	41	ug/l	SW846 8260C
Ethyl Ether	0.74 J	2.0	0.55	ug/l	SW846 8260C
Methyl Tert Butyl Ether	1.8	1.0	0.24	ug/l	SW846 8260C

JC3254-8R S-36

Di-Isopropyl ether ^a	0.39 J	2.0	0.26	ug/l	SW846 8260C
Isopropylbenzene	5.8	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether	0.75 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene	1.0 J	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol	6.1 J	10	2.8	ug/l	SW846 8260C

JC3254-9R S-32

Ethylbenzene	44800	1000	270	ug/l	SW846 8260C
Isopropylbenzene	251	100	23	ug/l	SW846 8260C
n-Propylbenzene	60.3 J	200	21	ug/l	SW846 8260C
Toluene	49.7 J	100	16	ug/l	SW846 8260C
m,p-Xylene	69200	1000	380	ug/l	SW846 8260C
o-Xylene	3620	100	17	ug/l	SW846 8260C
Xylene (total)	72800	1000	170	ug/l	SW846 8260C

JC3254-10R S-33

Chlorobenzene	0.38 J	1.0	0.19	ug/l	SW846 8260C
Di-Isopropyl ether	1.1 J	2.0	0.26	ug/l	SW846 8260C
1,4-Dioxane	44.3 J	130	41	ug/l	SW846 8260C

Summary of Hits

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Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Isopropylbenzene		38.5	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		7.2	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		6.1	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		44.1	10	2.8	ug/l	SW846 8260C

JC3254-11R MW-18

n-Butylbenzene		2.2	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		2.6	2.0	0.21	ug/l	SW846 8260C
Chlorobenzene		1.1	1.0	0.19	ug/l	SW846 8260C
Cyclohexane		1.0 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.48 J	1.0	0.19	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.38 J	1.0	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.27 J	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		6.4	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		3.0 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.26 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		5.2	2.0	0.21	ug/l	SW846 8260C
Toluene		0.31 J	1.0	0.16	ug/l	SW846 8260C
Vinyl chloride		0.25 J	1.0	0.15	ug/l	SW846 8260C
m,p-Xylene		1.6	1.0	0.38	ug/l	SW846 8260C
o-Xylene		0.75 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		2.4	1.0	0.17	ug/l	SW846 8260C

JC3254-12R MW-3

Benzene		0.36 J	0.50	0.24	ug/l	SW846 8260C
n-Butylbenzene		10.5	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		11.6	2.0	0.21	ug/l	SW846 8260C
tert-Butylbenzene		0.77 J	2.0	0.28	ug/l	SW846 8260C
Chlorobenzene		0.49 J	1.0	0.19	ug/l	SW846 8260C
Cyclohexane		4.4 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.39 J	1.0	0.19	ug/l	SW846 8260C
Ethylbenzene		0.93 J	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		26.2	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		4.8 J	5.0	0.22	ug/l	SW846 8260C
Naphthalene ^a		4.9 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene		44.3	2.0	0.21	ug/l	SW846 8260C
Toluene		0.48 J	1.0	0.16	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1.0 J	2.0	0.22	ug/l	SW846 8260C
m,p-Xylene		0.91 J	1.0	0.38	ug/l	SW846 8260C
o-Xylene		1.0	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		1.9	1.0	0.17	ug/l	SW846 8260C

Summary of Hits

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Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

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Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC3254-13R MW-13						
1,2-Dichlorobenzene		0.44 J	1.0	0.19	ug/l	SW846 8260C
Freon 113		8.6	5.0	0.52	ug/l	SW846 8260C
JC3254-14R MW-13D						
1,2-Dichlorobenzene		0.50 J	1.0	0.19	ug/l	SW846 8260C
Freon 113		9.3	5.0	0.52	ug/l	SW846 8260C
JC3254-15R MW-7						
Chlorobenzene		1.2	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		6.7	1.0	0.19	ug/l	SW846 8260C
1,3-Dichlorobenzene		0.24 J	1.0	0.23	ug/l	SW846 8260C
1,4-Dichlorobenzene		1.2	1.0	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.96 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		33.9	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		1.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.40 J	1.0	0.24	ug/l	SW846 8260C
Trichloroethene		0.35 J	1.0	0.22	ug/l	SW846 8260C
m,p-Xylene		31.3	1.0	0.38	ug/l	SW846 8260C
o-Xylene		1.1	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		32.3	1.0	0.17	ug/l	SW846 8260C
JC3254-16R MW-16						
1,2-Dichlorobenzene		1.5	1.0	0.19	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.48 J	1.0	0.27	ug/l	SW846 8260C
JC3254-17R MW-12						
Benzene		0.97	0.50	0.24	ug/l	SW846 8260C
n-Butylbenzene		10.9	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		10.5	2.0	0.21	ug/l	SW846 8260C
tert-Butylbenzene		0.59 J	2.0	0.28	ug/l	SW846 8260C
Cyclohexane		4.8 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.26 J	1.0	0.19	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.41 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		2.3	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		10.5	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		4.3 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.48 J	1.0	0.24	ug/l	SW846 8260C
Naphthalene ^a		2.3 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene		24.3	2.0	0.21	ug/l	SW846 8260C

Summary of Hits

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Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Toluene		0.19 J	1.0	0.16	ug/l	SW846 8260C
Vinyl chloride		0.39 J	1.0	0.15	ug/l	SW846 8260C
o-Xylene		0.31 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		0.65 J	1.0	0.17	ug/l	SW846 8260C

JC3254-18R MW-12D

Benzene		0.98	0.50	0.24	ug/l	SW846 8260C
n-Butylbenzene		10.7	2.0	0.14	ug/l	SW846 8260C
sec-Butylbenzene		10.8	2.0	0.21	ug/l	SW846 8260C
tert-Butylbenzene		0.60 J	2.0	0.28	ug/l	SW846 8260C
Cyclohexane		4.9 J	5.0	0.28	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.25 J	1.0	0.19	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.39 J	1.0	0.27	ug/l	SW846 8260C
Ethylbenzene		2.3	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		10.8	1.0	0.23	ug/l	SW846 8260C
Methylcyclohexane		4.4 J	5.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.56 J	1.0	0.24	ug/l	SW846 8260C
Naphthalene ^a		2.2 J	5.0	0.20	ug/l	SW846 8260C
n-Propylbenzene		24.5	2.0	0.21	ug/l	SW846 8260C
Toluene		0.17 J	1.0	0.16	ug/l	SW846 8260C
Vinyl chloride		0.43 J	1.0	0.15	ug/l	SW846 8260C
o-Xylene		0.31 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		0.66 J	1.0	0.17	ug/l	SW846 8260C

JC3254-19R QC TB 090915

No hits reported in this sample.

JC3254-20R A-IR(4)

Ethylbenzene		2820	25	6.7	ug/l	SW846 8260C
Isopropylbenzene		46.4	25	5.8	ug/l	SW846 8260C
Methyl Tert Butyl Ether		153	25	5.9	ug/l	SW846 8260C
4-Methyl-2-pentanone(MIBK)		85.3 J	130	25	ug/l	SW846 8260C
n-Propylbenzene		10.8 J	50	5.3	ug/l	SW846 8260C
Toluene		49.1	25	4.1	ug/l	SW846 8260C
m,p-Xylene		8710	25	9.4	ug/l	SW846 8260C
o-Xylene		779	25	4.1	ug/l	SW846 8260C
Xylene (total)		9490	25	4.1	ug/l	SW846 8260C

JC3254-21R A-2R(2)

Ethylbenzene		19.9	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		0.86 J	1.0	0.23	ug/l	SW846 8260C

Summary of Hits

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Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methyl Tert Butyl Ether		4.7	1.0	0.24	ug/l	SW846 8260C
Toluene		0.68 J	1.0	0.16	ug/l	SW846 8260C
m,p-Xylene		89.8	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		89.8	1.0	0.17	ug/l	SW846 8260C
JC3254-22R VP-1						
Chlorobenzene		0.20 J	1.0	0.19	ug/l	SW846 8260C
Ethylbenzene		3.7	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		50.3	1.0	0.23	ug/l	SW846 8260C
n-Propylbenzene		10	2.0	0.21	ug/l	SW846 8260C
m,p-Xylene		3.6	1.0	0.38	ug/l	SW846 8260C
o-Xylene		0.18 J	1.0	0.17	ug/l	SW846 8260C
Xylene (total)		3.7	1.0	0.17	ug/l	SW846 8260C
JC3254-23R VP-2						
Chlorobenzene		0.55 J	1.0	0.19	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.24 J	1.0	0.19	ug/l	SW846 8260C
1,4-Dioxane		1040	130	41	ug/l	SW846 8260C
Methyl Tert Butyl Ether		3.0	1.0	0.24	ug/l	SW846 8260C
JC3254-24R D-1R						
Chlorobenzene		0.20 J	1.0	0.19	ug/l	SW846 8260C
Di-Isopropyl ether		0.30 J	2.0	0.26	ug/l	SW846 8260C
1,4-Dioxane ^b		10300 E	130	41	ug/l	SW846 8260C
Ethylbenzene		0.30 J	1.0	0.27	ug/l	SW846 8260C
Methyl Tert Butyl Ether		2.6	1.0	0.24	ug/l	SW846 8260C
m,p-Xylene		0.65 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		0.65 J	1.0	0.17	ug/l	SW846 8260C
JC3254-25R S-31R(2)						
Benzene		2.6 J	5.0	2.4	ug/l	SW846 8260C
Ethylbenzene		3740	100	27	ug/l	SW846 8260C
Isopropylbenzene		28.9	10	2.3	ug/l	SW846 8260C
Methyl Tert Butyl Ether		11.0	10	2.4	ug/l	SW846 8260C
n-Propylbenzene		6.2 J	20	2.1	ug/l	SW846 8260C
Tert Butyl Alcohol		65.3 J	100	28	ug/l	SW846 8260C
JC3254-26R S-29R						
Chlorobenzene		0.27 J	1.0	0.19	ug/l	SW846 8260C
Di-Isopropyl ether		1.8 J	2.0	0.26	ug/l	SW846 8260C

Summary of Hits

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Job Number: JC3254R
Account: Anderson, Mulholland & Associates
Project: BMSMC, Former Tank Farm, PR
Collected: 09/03/15 thru 09/09/15

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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Isopropylbenzene		13.9	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.63 J	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		2.3	2.0	0.21	ug/l	SW846 8260C

JC3254-27R E-1R

Benzene		0.30 J	0.50	0.24	ug/l	SW846 8260C
Di-Isopropyl ether		0.74 J	2.0	0.26	ug/l	SW846 8260C
1,4-Dioxane		92.5 J	130	41	ug/l	SW846 8260C
Isopropylbenzene		1.1	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		8.4	1.0	0.24	ug/l	SW846 8260C
n-Propylbenzene		0.27 J	2.0	0.21	ug/l	SW846 8260C
Tert Butyl Alcohol		33.5	10	2.8	ug/l	SW846 8260C
m,p-Xylene		0.75 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		0.75 J	1.0	0.17	ug/l	SW846 8260C

JC3254-28R G-1R(3)

Ethylbenzene		28200	200	54	ug/l	SW846 8260C
Toluene		96.0 J	200	32	ug/l	SW846 8260C
m,p-Xylene		79800	200	75	ug/l	SW846 8260C
o-Xylene		5500	200	33	ug/l	SW846 8260C
Xylene (total)		85300	200	33	ug/l	SW846 8260C

JC3254-29R S-34

Di-Isopropyl ether		0.81 J	2.0	0.26	ug/l	SW846 8260C
Methyl Tert Butyl Ether		3.5	1.0	0.24	ug/l	SW846 8260C
Tert Butyl Alcohol		18.4	10	2.8	ug/l	SW846 8260C

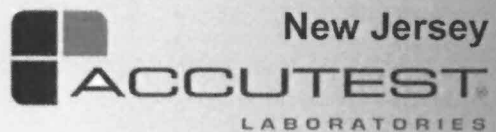
JC3254-30R EB090915

No hits reported in this sample.

JC3254-31R TB090915

No hits reported in this sample.

- (a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
 (b) Estimated value, this compound was re-logged outside the holding time per client's request.



Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	MW-15	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-1R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147903R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol ^a	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	2.1	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	2.2	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether ^a	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.39	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-15	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-1R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	42.6	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	0.45	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	22.0	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	17.7	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	466	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	3.5	10	1.4	ug/l	J
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-15	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-1R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.21	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	109%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID: MW-17	Date Sampled: 09/03/15
Lab Sample ID: JC3254-2R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134317R.D	1	09/10/15	BK	n/a	n/a	V2B5985
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	0.45	2.0	0.14	ug/l	J
135-98-8	sec-Butylbenzene	0.73	2.0	0.21	ug/l	J
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-17	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-2R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	4.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	2.1	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol ^b	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-17	Date Sampled: 09/03/15
Lab Sample ID: JC3254-2R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMSC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		76-120%
17060-07-0	1,2-Dichloroethane-D4	105%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

(b) Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-5	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-3R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134408R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	6.1	10	3.3	ug/l	J
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	0.44	2.0	0.14	ug/l	J
135-98-8	sec-Butylbenzene	0.47	2.0	0.21	ug/l	J
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.46	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.68	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.30	1.0	0.27	ug/l	J

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-5	Date Sampled: 09/03/15
Lab Sample ID: JC3254-3R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	3.5	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	28.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.4	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	0.20	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	10.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	333	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.51	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	10.9	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.51	1.0	0.17	ug/l	J

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-5	Date Sampled: 09/03/15
Lab Sample ID: JC3254-3R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	11.4	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-14	Date Sampled: 09/03/15
Lab Sample ID: JC3254-4R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134319R.D	1	09/10/15	BK	n/a	n/a	V2B5985
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.77	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.43	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	0.30	1.0	0.27	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-14	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-4R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	0.31	1.0	0.23	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	0.29	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.47	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol ^b	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.61	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-14	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-4R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.61	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

(b) Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: QC TB 030915	Date Sampled: 09/03/15
Lab Sample ID: JC3254-5R	Date Received: 09/05/15
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134320R.D	1	09/10/15	BK	n/a	n/a	V2B5985
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: QC TB 030915
Lab Sample ID: JC3254-5R
Matrix: AQ - Trip Blank Water
Method: SW846 8260C
Project: BMSMC, Former Tank Farm, PR

Date Sampled: 09/03/15
Date Received: 09/05/15
Percent Solids: n/a

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol ^b	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: QC TB 030915	Date Sampled: 09/03/15
Lab Sample ID: JC3254-5R	Date Received: 09/05/15
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

- (a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.
 (b) Data bias low due to daily check and blank spike failed low. Estimated data reported per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID: S-35
Lab Sample ID: JC3254-6R
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: BMSMC, Former Tank Farm, PR

Date Sampled: 09/03/15
Date Received: 09/05/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147889R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol ^a	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether ^a	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	S-35	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-6R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	833	130	41	ug/l	
60-29-7	Ethyl Ether	0.66	2.0	0.55	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-35	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-6R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	109%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	112%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-35	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-6	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101438.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	86%		48-150%
111-27-3	Hexanol	88%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-35D	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-7R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147890R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol ^a	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether ^a	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-35D	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-7R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	832	130	41	ug/l	
60-29-7	Ethyl Ether	0.74	2.0	0.55	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-35D	
Lab Sample ID: JC3254-7R	Date Sampled: 09/03/15
Matrix: AQ - Ground Water	Date Received: 09/05/15
Method: SW846 8260C	Percent Solids: n/a
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		76-120%
17060-07-0	1,2-Dichloroethane-D4	108%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	111%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-35D	Date Sampled: 09/03/15
Lab Sample ID: JC3254-7	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015C (DAI)	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101439.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	87%		48-150%
111-27-3	Hexanol	90%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-36	Date Sampled: 09/03/15
Lab Sample ID: JC3254-8R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D147891R.D	1	09/09/15	BK	n/a	n/a	V2D6208
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol ^a	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether ^a	0.39	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-36	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-8R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	5.8	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.75	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	1.0	2.0	0.21	ug/l	J
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	6.1	10	2.8	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-36	Date Sampled: 09/03/15
Lab Sample ID: JC3254-8R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	110%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	112%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-36	Date Sampled: 09/03/15
Lab Sample ID: JC3254-8	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015C (DAI)	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101440.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	86%		48-150%
111-27-3	Hexanol	90%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-32	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-9R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134560R.D	100	09/17/15	BK	n/a	n/a	V2B5996
Run #2	2B134561R.D	1000	09/17/15	BK	n/a	n/a	V2B5996

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	10000	3100	ug/l	
67-64-1	Acetone	ND	1000	330	ug/l	
71-43-2	Benzene	ND	50	24	ug/l	
74-97-5	Bromochloromethane	ND	100	37	ug/l	
75-27-4	Bromodichloromethane	ND	100	23	ug/l	
75-25-2	Bromoform	ND	100	23	ug/l	
74-83-9	Bromomethane	ND	200	42	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	560	ug/l	
71-36-3	n-Butyl Alcohol	ND	25000	4200	ug/l	
104-51-8	n-Butylbenzene	ND	200	14	ug/l	
135-98-8	sec-Butylbenzene	ND	200	21	ug/l	
98-06-6	tert-Butylbenzene	ND	200	28	ug/l	
75-15-0	Carbon disulfide	ND	200	25	ug/l	
56-23-5	Carbon tetrachloride	ND	100	22	ug/l	
108-90-7	Chlorobenzene	ND	100	19	ug/l	
75-45-6	Chlorodifluoromethane	ND	500	44	ug/l	
75-00-3	Chloroethane	ND	100	34	ug/l	
67-66-3	Chloroform	ND	100	19	ug/l	
74-87-3	Chloromethane	ND	100	41	ug/l	
110-82-7	Cyclohexane	ND	500	28	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	99	ug/l	
124-48-1	Dibromochloromethane	ND	100	15	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	90	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	17	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	18	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-32	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-9R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	100	65	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	39	ug/l	
142-28-9	1,3-Dichloropropane	ND	100	15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	19	ug/l	
123-91-1	1,4-Dioxane	ND	13000	4100	ug/l	
60-29-7	Ethyl Ether	ND	200	55	ug/l	
100-41-4	Ethylbenzene	44800 ^a	1000	270	ug/l	
76-13-1	Freon 113	ND	500	52	ug/l	
67-72-1	Hexachloroethane	ND	200	28	ug/l	
591-78-6	2-Hexanone	ND	500	170	ug/l	
123-51-3	IsoAmyl Alcohol	ND	5000	2400	ug/l	
78-83-1	Isobutyl alcohol	ND	5000	1800	ug/l	
98-82-8	Isopropylbenzene	251	100	23	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	21	ug/l	
79-20-9	Methyl Acetate	ND	500	190	ug/l	
108-87-2	Methylcyclohexane	ND	500	22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	100	ug/l	
75-09-2	Methylene chloride	ND	200	73	ug/l	
91-20-3	Naphthalene ^b	ND	500	20	ug/l	
103-65-1	n-Propylbenzene	60.3	200	21	ug/l	J
100-42-5	Styrene	ND	100	27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	1000	280	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	200	19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	200	62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	21	ug/l	
127-18-4	Tetrachloroethene	ND	100	40	ug/l	
109-99-9	Tetrahydrofuran	ND	1000	140	ug/l	
108-88-3	Toluene	49.7	100	16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	100	23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	21	ug/l	
79-01-6	Trichloroethene	ND	100	22	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	200	22	ug/l	
75-01-4	Vinyl chloride	ND	100	15	ug/l	
	m,p-Xylene	69200 ^a	1000	380	ug/l	
95-47-6	o-Xylene	3620	100	17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-32	Date Sampled: 09/03/15
Lab Sample ID: JC3254-9R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	72800 ^a	1000	170	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	119%	119%	73-122%
2037-26-5	Toluene-D8	105%	103%	84-119%
460-00-4	4-Bromofluorobenzene	104%	103%	78-117%

(a) Result is from Run# 2

(b) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-32	Date Sampled: 09/03/15
Lab Sample ID: JC3254-9	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015C (DAI)	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101441.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	87%		48-150%
111-27-3	Hexanol	102%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-33	Date Sampled: 09/03/15
Lab Sample ID: JC3254-10R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134438R.D	1	09/14/15	BK	n/a	n/a	V2B5990
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol ^a	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.38	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	1.1	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-33	Date Sampled:	09/03/15
Lab Sample ID:	JC3254-10R	Date Received:	09/05/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	44.3	130	41	ug/l	J
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	38.5	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.2	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	6.1	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	44.1	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-33	Date Sampled: 09/03/15
Lab Sample ID: JC3254-10R	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-33	Date Sampled: 09/03/15
Lab Sample ID: JC3254-10	Date Received: 09/05/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015C (DAI)	
Project: BMSMC, Former Tank Farm, PR	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101442.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	85%		48-150%
111-27-3	Hexanol	90%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-18
Lab Sample ID: JC3254-11R
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: BMSMC, Former Tank Farm, PR

Date Sampled: 09/04/15
Date Received: 09/10/15
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134478R.D	1	09/15/15	BK	n/a	n/a	V2B5992
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol ^a	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	2.2	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	2.6	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	1.1	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	1.0	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.48	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	0.38	1.0	0.27	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.27	1.0	0.27	ug/l	J

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-18	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-11R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	6.4	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methyleyclohexane	3.0	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.26	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	5.2	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.31	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	0.25	1.0	0.15	ug/l	J
	m,p-Xylene	1.6	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.75	1.0	0.17	ug/l	J

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-18	Date Sampled: 09/04/15
Lab Sample ID: JC3254-11R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

4.11

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VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	2.4	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	MW-3	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-12R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134538R.D	1	09/16/15	BK	n/a	n/a	V2B5994
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.36	0.50	0.24	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	10.5	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	11.6	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.77	2.0	0.28	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.49	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	4.4	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.39	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-3	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-12R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	0.93	1.0	0.27	ug/l	J
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	26.2	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methyleyclohexane	4.8	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	4.9	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	44.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	0.48	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.0	2.0	0.22	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.91	1.0	0.38	ug/l	J
95-47-6	o-Xylene	1.0	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-3	Date Sampled: 09/04/15
Lab Sample ID: JC3254-12R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

4.12

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VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	1.9	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID: MW-13	Date Sampled: 09/08/15
Lab Sample ID: JC3254-13R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134439R.D	1	09/14/15	BK	n/a	n/a	V2B5990
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol ^a	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.44	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-13	Date Sampled:	09/08/15
Lab Sample ID:	JC3254-13R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	8.6	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-13	Date Sampled: 09/08/15
Lab Sample ID: JC3254-13R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

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VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-13D	Date Sampled: 09/08/15
Lab Sample ID: JC3254-14R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134536R.D	1	09/16/15	BK	n/a	n/a	V2B5994
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-13D	Date Sampled:	09/08/15
Lab Sample ID:	JC3254-14R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	9.3	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: MW-13D	Date Sampled: 09/08/15
Lab Sample ID: JC3254-14R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	MW-7	Date Sampled:	09/08/15
Lab Sample ID:	JC3254-15R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134537R.D	1	09/16/15	BK	n/a	n/a	V2B5994
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	1.2	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	6.7	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24	1.0	0.23	ug/l	J
106-46-7	1,4-Dichlorobenzene	1.2	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.96	1.0	0.27	ug/l	J

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	MW-7	Date Sampled:	09/08/15
Lab Sample ID:	JC3254-15R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	33.9	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	1.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.40	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran ^a	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	0.35	1.0	0.22	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	31.3	1.0	0.38	ug/l	
95-47-6	o-Xylene	1.1	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-7	Date Sampled: 09/08/15
Lab Sample ID: JC3254-15R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

4.15

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VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	32.3	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	102%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-16	Date Sampled: 09/08/15
Lab Sample ID: JC3254-16R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134400R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	1.5	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	0.48	1.0	0.27	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-16	Date Sampled:	09/08/15
Lab Sample ID:	JC3254-16R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-16	Date Sampled: 09/08/15
Lab Sample ID: JC3254-16R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-12	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-17R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134401R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.97	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	10.9	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	10.5	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.59	2.0	0.28	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	4.8	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.26	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.41	1.0	0.27	ug/l	J

ND = Not detected MDL = Method Detection Limit
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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-12	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-17R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	2.3	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	10.5	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	4.3	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.48	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	2.3	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	24.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.19	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	0.39	1.0	0.15	ug/l	J
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.31	1.0	0.17	ug/l	J

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: MW-12	
Lab Sample ID: JC3254-17R	Date Sampled: 09/09/15
Matrix: AQ - Ground Water	Date Received: 09/10/15
Method: SW846 8260C	Percent Solids: n/a
Project: BMSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.65	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-12	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-17	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M57746.D	1	09/17/15	LK	09/15/15	OP87215A	E3M2675
Run #2 ^a	4M60722.D	1	09/24/15	LK	09/18/15	OP87321A	E4M2661

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2	950 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.350	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.013	ug/l	
120-12-7	Anthracene	ND	0.11	0.014	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.056	0.033	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.11	0.023	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.021	ug/l	
218-01-9	Chrysene	ND	0.11	0.017	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.039	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.012	ug/l	
86-73-7	Fluorene	1.05	0.11	0.030	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.035	ug/l	
91-20-3	Naphthalene	1.57	0.11	0.015	ug/l	
85-01-8	Phenanthrene	0.251	0.11	0.018	ug/l	
129-00-0	Pyrene	ND	0.11	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	2% ^c	0% ^b	18-128%
321-60-8	2-Fluorobiphenyl	59%	72%	13-124%
1718-51-0	Terphenyl-d14	22%	36%	10-127%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference.

(c) Outside control limits due to matrix interference. Confirmed by re-extraction.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-12D	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-18R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134402R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.98	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	10.7	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	10.8	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.60	2.0	0.28	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	4.9	5.0	0.28	ug/l	J
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.25	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.39	1.0	0.27	ug/l	J

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-12D	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-18R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	2.3	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	10.8	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	4.4	5.0	0.22	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.56	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	2.2	5.0	0.20	ug/l	J
103-65-1	n-Propylbenzene	24.5	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.17	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	0.43	1.0	0.15	ug/l	J
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.31	1.0	0.17	ug/l	J

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	MW-12D	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-18R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.66	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
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 B = Indicates analyte found in associated method blank
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Report of Analysis

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Client Sample ID:	MW-12D	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-18	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M57747.D	1	09/17/15	LK	09/15/15	OP87215A	E3M2675
Run #2 ^a	4M60723.D	1	09/24/15	LK	09/18/15	OP87321A	E4M2661

Run #	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.351	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.012	ug/l	
120-12-7	Anthracene	ND	0.11	0.014	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.019	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.053	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.11	0.022	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.020	ug/l	
218-01-9	Chrysene	ND	0.11	0.016	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.037	ug/l	
206-44-0	Fluoranthene	0.116	0.11	0.012	ug/l	
86-73-7	Fluorene	1.07	0.11	0.028	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
91-20-3	Naphthalene	1.66	0.11	0.014	ug/l	
85-01-8	Phenanthrene	0.296	0.11	0.017	ug/l	
129-00-0	Pyrene	ND	0.11	0.014	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	2% ^c	0% ^b	18-128%
321-60-8	2-Fluorobiphenyl	56%	78%	13-124%
1718-51-0	Terphenyl-d14	26%	33%	10-127%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference.

(c) Outside control limits due to matrix interference. Confirmed by re-extraction.

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Report of Analysis

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Client Sample ID:	QC TB 090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-19R	Date Received:	09/10/15
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134403R.D	1	09/12/15	BK	n/a	n/a	V2B5989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

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Report of Analysis

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Client Sample ID: QC TB 090915
Lab Sample ID: JC3254-19R
Matrix: AQ - Trip Blank Water
Method: SW846 8260C
Project: BMSMC, Former Tank Farm, PR

Date Sampled: 09/09/15
Date Received: 09/10/15
Percent Solids: n/a

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

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Report of Analysis

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Client Sample ID: QC TB 090915	Date Sampled: 09/09/15
Lab Sample ID: JC3254-19R	Date Received: 09/10/15
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	110%		73-122%
2037-26-5	Toluene-D8	103%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
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Report of Analysis

Page 1 of 3

Client Sample ID:	A-IR(4)	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-20R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134480R.D	25	09/15/15	BK	n/a	n/a	V2B5992
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol ^a	ND	2500	780	ug/l	
67-64-1	Acetone	ND	250	83	ug/l	
71-43-2	Benzene	ND	13	5.9	ug/l	
74-97-5	Bromochloromethane	ND	25	9.3	ug/l	
75-27-4	Bromodichloromethane	ND	25	5.7	ug/l	
75-25-2	Bromoform	ND	25	5.9	ug/l	
74-83-9	Bromomethane	ND	50	11	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	140	ug/l	
71-36-3	n-Butyl Alcohol	ND	6300	1100	ug/l	
104-51-8	n-Butylbenzene	ND	50	3.4	ug/l	
135-98-8	sec-Butylbenzene	ND	50	5.3	ug/l	
98-06-6	tert-Butylbenzene	ND	50	7.0	ug/l	
75-15-0	Carbon disulfide	ND	50	6.3	ug/l	
56-23-5	Carbon tetrachloride	ND	25	5.5	ug/l	
108-90-7	Chlorobenzene	ND	25	4.6	ug/l	
75-45-6	Chlorodifluoromethane	ND	130	11	ug/l	
75-00-3	Chloroethane	ND	25	8.5	ug/l	
67-66-3	Chloroform	ND	25	4.7	ug/l	
74-87-3	Chloromethane	ND	25	10	ug/l	
110-82-7	Cyclohexane	ND	130	7.1	ug/l	
108-20-3	Di-Isopropyl ether	ND	50	6.5	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	25	3.8	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	5.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	4.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	5.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	6.9	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	22	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	4.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	4.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	25	13	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	25	6.9	ug/l	

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Report of Analysis

Page 2 of 3

Client Sample ID:	A-IR(4)	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-20R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	25	16	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	9.8	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	3.9	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	5.2	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	4.6	ug/l	
123-91-1	1,4-Dioxane	ND	3100	1000	ug/l	
60-29-7	Ethyl Ether	ND	50	14	ug/l	
100-41-4	Ethylbenzene	2820	25	6.7	ug/l	
76-13-1	Freon 113	ND	130	13	ug/l	
67-72-1	Hexachloroethane	ND	50	7.0	ug/l	
591-78-6	2-Hexanone	ND	130	44	ug/l	
123-51-3	IsoAmyl Alcohol	ND	1300	600	ug/l	
78-83-1	Isobutyl alcohol	ND	1300	440	ug/l	
98-82-8	Isopropylbenzene	46.4	25	5.8	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	5.3	ug/l	
79-20-9	Methyl Acetate	ND	130	47	ug/l	
108-87-2	Methylcyclohexane	ND	130	5.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	153	25	5.9	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	85.3	130	25	ug/l	J
75-09-2	Methylene chloride	ND	50	18	ug/l	
91-20-3	Naphthalene	ND	130	5.1	ug/l	
103-65-1	n-Propylbenzene	10.8	50	5.3	ug/l	J
100-42-5	Styrene	ND	25	6.8	ug/l	
75-65-0	Tert Butyl Alcohol	ND	250	69	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	50	4.7	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	50	15	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	5.2	ug/l	
127-18-4	Tetrachloroethene	ND	25	10	ug/l	
109-99-9	Tetrahydrofuran	ND	250	35	ug/l	
108-88-3	Toluene	49.1	25	4.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	5.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	5.2	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	6.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	5.4	ug/l	
79-01-6	Trichloroethene	ND	25	5.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	5.6	ug/l	
75-01-4	Vinyl chloride	ND	25	3.7	ug/l	
	m,p-Xylene	8710	25	9.4	ug/l	
95-47-6	o-Xylene	779	25	4.1	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: A-IR(4)	Date Sampled: 09/04/15
Lab Sample ID: JC3254-20R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	9490	25	4.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	111%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: A-IR(4)	Date Sampled: 09/04/15
Lab Sample ID: JC3254-20	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015C (DAI)	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101443.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	79%		48-150%
111-27-3	Hexanol	83%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	A-2R(2)		
Lab Sample ID:	JC3254-21R	Date Sampled:	09/04/15
Matrix:	AQ - Ground Water	Date Received:	09/10/15
Method:	SW846 8260C	Percent Solids:	n/a
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134390R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	A-2R(2)	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-21R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	19.9	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	0.86	1.0	0.23	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.7	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	0.68	1.0	0.16	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	89.8	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: A-2R(2)	Date Sampled: 09/04/15
Lab Sample ID: JC3254-21R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	89.8	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	116%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	104%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: A-2R(2)	
Lab Sample ID: JC3254-21	Date Sampled: 09/04/15
Matrix: AQ - Ground Water	Date Received: 09/10/15
Method: SW846-8015C (DAI)	Percent Solids: n/a
Project: BSMC, Former Tank Farm, PR	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	GH101444.D	1	09/14/15	XPL	n/a	n/a	GGH5006

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	86%		48-150%
111-27-3	Hexanol	89%		48-150%

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	VP-1	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-22R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134391R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.20	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	VP-1	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-22R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	3.7	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	50.3	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	10	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	3.6	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.18	1.0	0.17	ug/l	J

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: VP-1	
Lab Sample ID: JC3254-22R	Date Sampled: 09/04/15
Matrix: AQ - Ground Water	Date Received: 09/10/15
Method: SW846 8260C	Percent Solids: n/a
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	3.7	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	VP-1	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-22	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101448.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	86%		48-150%
111-27-3	Hexanol	90%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	VP-2	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-23R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134392R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.55	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	0.24	1.0	0.19	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: VP-2	Date Sampled: 09/04/15
Lab Sample ID: JC3254-23R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	1040	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: VP-2	Date Sampled: 09/04/15
Lab Sample ID: JC3254-23R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

4.23
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VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	VP-2	Date Sampled:	09/04/15
Lab Sample ID:	JC3254-23	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101449.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	89%		48-150%
111-27-3	Hexanol	93%		48-150%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: D-1R	Date Sampled: 09/07/15
Lab Sample ID: JC3254-24R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134393R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.20	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	0.30	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	D-1R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-24R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane ^a	10300	130	41	ug/l	E
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	0.30	1.0	0.27	ug/l	J
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.65	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: D-1R	Date Sampled: 09/07/15
Lab Sample ID: JC3254-24R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

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VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.65	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

(a) Estimated value, this compound was re-logged outside the holding time per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	D-1R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-24	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101450.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	86%		48-150%
111-27-3	Hexanol	90%		48-150%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	S-31R(2)	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-25R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134380R.D	10	09/12/15	BK	n/a	n/a	V2B5988
Run #2	2B134381R.D	100	09/12/15	BK	n/a	n/a	V2B5988

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	1000	310	ug/l	
67-64-1	Acetone	ND	100	33	ug/l	
71-43-2	Benzene	2.6	5.0	2.4	ug/l	J
74-97-5	Bromochloromethane	ND	10	3.7	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.3	ug/l	
75-25-2	Bromoform	ND	10	2.3	ug/l	
74-83-9	Bromomethane	ND	20	4.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	56	ug/l	
71-36-3	n-Butyl Alcohol	ND	2500	420	ug/l	
104-51-8	n-Butylbenzene	ND	20	1.4	ug/l	
135-98-8	sec-Butylbenzene	ND	20	2.1	ug/l	
98-06-6	tert-Butylbenzene	ND	20	2.8	ug/l	
75-15-0	Carbon disulfide	ND	20	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.2	ug/l	
108-90-7	Chlorobenzene	ND	10	1.9	ug/l	
75-45-6	Chlorodifluoromethane	ND	50	4.4	ug/l	
75-00-3	Chloroethane	ND	10	3.4	ug/l	
67-66-3	Chloroform	ND	10	1.9	ug/l	
74-87-3	Chloromethane	ND	10	4.1	ug/l	
110-82-7	Cyclohexane	ND	50	2.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	20	2.6	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	9.9	ug/l	
124-48-1	Dibromochloromethane	ND	10	1.5	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	1.9	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	2.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	2.7	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	9.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	1.8	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.1	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	2.7	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: S-31R(2)	Date Sampled: 09/07/15
Lab Sample ID: JC3254-25R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	10	6.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	3.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	1.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	1.9	ug/l	
123-91-1	1,4-Dioxane	ND	1300	410	ug/l	
60-29-7	Ethyl Ether	ND	20	5.5	ug/l	
100-41-4	Ethylbenzene	3740 ^a	100	27	ug/l	
76-13-1	Freon 113	ND	50	5.2	ug/l	
67-72-1	Hexachloroethane	ND	20	2.8	ug/l	
591-78-6	2-Hexanone	ND	50	17	ug/l	
123-51-3	IsoAmyl Alcohol	ND	500	240	ug/l	
78-83-1	Isobutyl alcohol	ND	500	180	ug/l	
98-82-8	Isopropylbenzene	28.9	10	2.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	2.1	ug/l	
79-20-9	Methyl Acetate	ND	50	19	ug/l	
108-87-2	Methylcyclohexane	ND	50	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.0	10	2.4	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	10	ug/l	
75-09-2	Methylene chloride	ND	20	7.3	ug/l	
91-20-3	Naphthalene	ND	50	2.0	ug/l	
103-65-1	n-Propylbenzene	6.2	20	2.1	ug/l	J
100-42-5	Styrene	ND	10	2.7	ug/l	
75-65-0	Tert Butyl Alcohol	65.3	100	28	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	20	1.9	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	20	6.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.1	ug/l	
127-18-4	Tetrachloroethene	ND	10	4.0	ug/l	
109-99-9	Tetrahydrofuran	ND	100	14	ug/l	
108-88-3	Toluene	ND	10	1.6	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	2.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	2.1	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	2.1	ug/l	
79-01-6	Trichloroethene	ND	10	2.2	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	2.2	ug/l	
75-01-4	Vinyl chloride	ND	10	1.5	ug/l	
	m,p-Xylene	ND	10	3.8	ug/l	
95-47-6	o-Xylene	ND	10	1.7	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-31R(2)	Date Sampled: 09/07/15
Lab Sample ID: JC3254-25R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

4.25
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VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	10	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	76-120%
17060-07-0	1,2-Dichloroethane-D4	111%	110%	73-122%
2037-26-5	Toluene-D8	105%	104%	84-119%
460-00-4	4-Bromofluorobenzene	105%	105%	78-117%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-31R(2)	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-25	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101428.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	88%		48-150%
111-27-3	Hexanol	87%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-29R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-26R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134382R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	0.27	1.0	0.19	ug/l	J
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	1.8	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	S-29R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-26R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	13.9	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.63	1.0	0.24	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	2.3	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-29R	Date Sampled: 09/07/15
Lab Sample ID: JC3254-26R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	107%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-29R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-26	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101431.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	90%		48-150%
111-27-3	Hexanol	92%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: E-1R	Date Sampled: 09/07/15
Lab Sample ID: JC3254-27R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134383R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.30	0.50	0.24	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	0.74	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

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Report of Analysis

Page 2 of 3

Client Sample ID:	E-1R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-27R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	92.5	130	41	ug/l	J
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	1.1	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.4	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	0.27	2.0	0.21	ug/l	J
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	33.5	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	0.75	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E-1R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-27R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	0.75	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	112%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	E-1R	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-27	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	GH101432.D	1	09/14/15	XPL	n/a	n/a	GGH5006

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	89%		48-150%
111-27-3	Hexanol	93%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	G-1R(3)	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-28R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134477R.D	200	09/15/15	BK	n/a	n/a	V2B5992
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol ^a	ND	20000	6200	ug/l	
67-64-1	Acetone	ND	2000	660	ug/l	
71-43-2	Benzene	ND	100	47	ug/l	
74-97-5	Bromochloromethane	ND	200	74	ug/l	
75-27-4	Bromodichloromethane	ND	200	45	ug/l	
75-25-2	Bromoform	ND	200	47	ug/l	
74-83-9	Bromomethane	ND	400	85	ug/l	
78-93-3	2-Butanone (MEK)	ND	2000	1100	ug/l	
71-36-3	n-Butyl Alcohol	ND	50000	8400	ug/l	
104-51-8	n-Butylbenzene	ND	400	27	ug/l	
135-98-8	sec-Butylbenzene	ND	400	43	ug/l	
98-06-6	tert-Butylbenzene	ND	400	56	ug/l	
75-15-0	Carbon disulfide	ND	400	51	ug/l	
56-23-5	Carbon tetrachloride	ND	200	44	ug/l	
108-90-7	Chlorobenzene	ND	200	37	ug/l	
75-45-6	Chlorodifluoromethane	ND	1000	88	ug/l	
75-00-3	Chloroethane	ND	200	68	ug/l	
67-66-3	Chloroform	ND	200	37	ug/l	
74-87-3	Chloromethane	ND	200	81	ug/l	
110-82-7	Cyclohexane	ND	1000	56	ug/l	
108-20-3	Di-Isopropyl ether	ND	400	52	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	200	ug/l	
124-48-1	Dibromochloromethane	ND	200	31	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	46	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	200	37	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	200	45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	200	55	ug/l	
75-71-8	Dichlorodifluoromethane	ND	400	180	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	34	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	36	ug/l	
75-35-4	1,1-Dichloroethene	ND	200	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	200	55	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: G-1R(3)
Lab Sample ID: JC3254-28R
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: BMSMC, Former Tank Farm, PR

Date Sampled: 09/07/15
Date Received: 09/10/15
Percent Solids: n/a

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	200	130	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	79	ug/l	
142-28-9	1,3-Dichloropropane	ND	200	31	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	41	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	37	ug/l	
123-91-1	1,4-Dioxane	ND	25000	8100	ug/l	
60-29-7	Ethyl Ether	ND	400	110	ug/l	
100-41-4	Ethylbenzene	28200	200	54	ug/l	
76-13-1	Freon 113	ND	1000	100	ug/l	
67-72-1	Hexachloroethane	ND	400	56	ug/l	
591-78-6	2-Hexanone	ND	1000	350	ug/l	
123-51-3	IsoAmyl Alcohol	ND	10000	4800	ug/l	
78-83-1	Isobutyl alcohol	ND	10000	3500	ug/l	
98-82-8	Isopropylbenzene	ND	200	47	ug/l	
99-87-6	p-Isopropyltoluene	ND	400	42	ug/l	
79-20-9	Methyl Acetate	ND	1000	380	ug/l	
108-87-2	Methylcyclohexane	ND	1000	44	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	47	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	200	ug/l	
75-09-2	Methylene chloride	ND	400	150	ug/l	
91-20-3	Naphthalene	ND	1000	40	ug/l	
103-65-1	n-Propylbenzene	ND	400	43	ug/l	
100-42-5	Styrene	ND	200	54	ug/l	
75-65-0	Tert Butyl Alcohol	ND	2000	550	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	400	38	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	400	120	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	41	ug/l	
127-18-4	Tetrachloroethene	ND	200	80	ug/l	
109-99-9	Tetrahydrofuran	ND	2000	280	ug/l	
108-88-3	Toluene	96.0	200	32	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	200	45	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	42	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	43	ug/l	
79-01-6	Trichloroethene	ND	200	45	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	86	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	400	45	ug/l	
75-01-4	Vinyl chloride	ND	200	29	ug/l	
	m,p-Xylene	79800	200	75	ug/l	
95-47-6	o-Xylene	5500	200	33	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: G-1R(3)	
Lab Sample ID: JC3254-28R	Date Sampled: 09/07/15
Matrix: AQ - Ground Water	Date Received: 09/10/15
Method: SW846 8260C	Percent Solids: n/a
Project: BMSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	85300	200	33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	113%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) Data bias low due to low response of associated daily check. This compound was re-logged per client's request.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	G-1R(3)	Date Sampled:	09/07/15
Lab Sample ID:	JC3254-28	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101433.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	88%		48-150%
111-27-3	Hexanol	92%		48-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-34	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-29R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134386R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	0.81	2.0	0.26	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-34	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-29R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.5	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	18.4	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: S-34	Date Sampled: 09/09/15
Lab Sample ID: JC3254-29R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	106%		84-119%
460-00-4	4-Bromofluorobenzene	105%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	S-34	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-29	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	BMSMC, Former Tank Farm, PR		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101434.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	87%		48-150%
111-27-3	Hexanol	93%		48-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	EB090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-30R	Date Received:	09/10/15
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134387R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	EB090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-30R	Date Received:	09/10/15
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methyleyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	EB090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-30R	Date Received:	09/10/15
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	114%		73-122%
2037-26-5	Toluene-D8	105%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	EB090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-30	Date Received:	09/10/15
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4M60585.D	1	09/18/15	SW	09/17/15	OP87266A	E4M2654
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.012	ug/l	
120-12-7	Anthracene	ND	0.10	0.013	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.019	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.052	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.022	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.020	ug/l	
218-01-9	Chrysene	ND	0.10	0.016	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.037	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.012	ug/l	
86-73-7	Fluorene	ND	0.10	0.028	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
91-20-3	Naphthalene	ND	0.10	0.014	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.017	ug/l	
129-00-0	Pyrene	ND	0.10	0.014	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		18-128%
321-60-8	2-Fluorobiphenyl	91%		13-124%
1718-51-0	Terphenyl-d14	50%		10-127%

(a) Sample extracted outside the holding time per client's request.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: EB090915	Date Sampled: 09/09/15
Lab Sample ID: JC3254-30	Date Received: 09/10/15
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Method: SW846-8015C (DAI)	
Project: BSMC, Former Tank Farm, PR	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH101437.D	1	09/14/15	XPL	n/a	n/a	GGH5006
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	25	ug/l	
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	89%		48-150%
111-27-3	Hexanol	93%		48-150%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	TB090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-31R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134388R.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	31	ug/l	
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	42	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-45-6	Chlorodifluoromethane	ND	5.0	0.44	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

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Report of Analysis

Page 2 of 3

Client Sample ID:	TB090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-31R	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	41	ug/l	
60-29-7	Ethyl Ether	ND	2.0	0.55	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
76-13-1	Freon 113	ND	5.0	0.52	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
123-51-3	IsoAmyl Alcohol	ND	50	24	ug/l	
78-83-1	Isobutyl alcohol	ND	50	18	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.9	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	2.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.19	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
109-99-9	Tetrahydrofuran	ND	10	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: TB090915	Date Sampled: 09/09/15
Lab Sample ID: JC3254-31R	Date Received: 09/10/15
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260C	
Project: BMSMC, Former Tank Farm, PR	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	TB090915	Date Sampled:	09/09/15
Lab Sample ID:	JC3254-31	Date Received:	09/10/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	BMSMC, Former Tank Farm, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B134388.D	1	09/12/15	BK	n/a	n/a	V2B5988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	115%		73-122%
2037-26-5	Toluene-D8	104%		84-119%
460-00-4	4-Bromofluorobenzene	106%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



New Jersey

ACCUTEST
LABORATORIES

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

112 of 119
ACCUTEST®
LABORATORIES
JC3254R

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JC3254
Accutest Quote #:

Client Information		Facility Information		Analytical Information																
Anderson Mulholland & Associates		Anderson Mulholland and Associates Inc.																		
Name 2700 Westchester Avenue		Project Name																		
Address Purchase NY 10577		Location																		
City State Zip Terry Taylor		Project/PO #: BMS: Building 5 Area																		
Send Report to: Phone #: 914-251-0400		FAX #: 914-251-1286																		
		Collection																		
Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCL	NH ₄ OH	PHOS	H ₂ SO ₄	None	VOCs (Special List 3)									
S-35	9/1/15	1545	NMR	GW	6	X					X	6								
S-35 D	9/1/15	1547	NMR	GW	6	X					X	7								
S-36	9/2/15	1132	NMR	GW	6	X					X	8								
S-32	9/2/15	1702	NMR	GW	6	X					X	9								
S-33	9/2/15	1558	NMR	GW	6	X					X	10								
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
			NMR	GW	6	X					X									
Turnaround Information		Data Deliverable Information		Comments / Remarks																
<input checked="" type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other (Days) RUSH TAT is for FAX data unless previously approved.		Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify)		<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms Federal Express ID # <u>801219535125</u> Lab Trip Blank Date <u>8/26/15</u> Time <u>06:00</u> VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 3 compounds (acetone, benzene, ethylbenzene, toluene, MIBK, xylene, IPA and methanol). Also, please provide report on CD ROM.																
Sample Custody must be documented below each time samples change possession, including courier delivery.																				
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:															
1 Weston M. Rivera	9/4/15 / 1101	1 ECPX	2 FEDX	9/5/15 1000	2															
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:															
3		3	4		4															
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserved where applied	On Ice:															
5		5	198	yes	yes															

5.1
5

JC3254R: Chain of Custody

Page 2 of 8



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JC3254

Client: Anderson Mulholland

Project: BMS: Former Tank Farm

Date / Time Received: 9/5/2015 10:00:00 AM

Delivery Method: FedEx

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2); Cooler 2: (2.7); Cooler 3: (3.2); Cooler 4: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.4); Cooler 2: (2.9); Cooler 3: (3.4); Cooler 4: (2.6);

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

Y or N

3. COC Present: ☒ ☐
4. SmpI Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: IR Gun
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation

Y

N

N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y

N

N/A

1. Analysis requested is clear: ☒ ☐ ☐
2. Bottles received for unspecified tests: ☐ ☒ ☐
3. Sufficient volume recvd for analysis: ☒ ☐ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments -10 Also rec'd sample "S-33" not on COC/added. Rec'd 6 HCL preserved voc vials collected 9/2/15 at 15:58

Revised: For Samples rec'd on 9/10/15

-30 Rec'd sample "EB090915" not on COC/added. Rec'd 2x 950ml N/P Ambers and 3 HCL voc's collected 9/9/15 at 1058

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JC3254R: Chain of Custody
Page 3 of 8



Sample Receipt Summary - Problem Resolution

Accutest Job Number: JC3254

Initiator: ANDREWS

CSR: MS / Tammy McCloskey

Response Date 9/8/2015

Response: Per Nestor Rivera please proceed as noted and analyze -10 for V8260SL2

9/10/15 sample receipt:

-30 please analyze for V8260SL2, Toluene, Ethylbenzene, B8270SIMPAAH

-17 & -18 please add Toluene and Ethylbenzene to VO's

per Terry Taylor

5.1
5

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JC3254R: Chain of Custody
Page 4 of 8

Accutest Job #:	JC 3254
Accutest Quote #:	

Client Information						Facility Information							Analytical Information										
Anderson Mulholland & Associates						Anderson Mulholland																	
Name 2700 Westchester Avenue						Project Name																	
Address Purchase NY 10577						Location																	
City State Zip Terry Taylor						Project/PO #: BMS: Former Tank Farm																	
Send Report to: Phone #: 914-251-0400						FAX #: 914-251-1286																	
Field ID / Point of Collection		Collection		Matrix	# of bottles	Preservation					VOCs (Special List 2)			Ethylbenzene and Toluene (Special List 2)	PAH by 8270S/M								
Date	Time	Sampled By	HCL			NaOH	HMDS	K2S2O8	None														
MW-18	9/4/15	1738	N.M.R.	GW	3	X					X	11		*							V3		
MW-3	9/4/15	1841		GW	4	X					X	12									V4		
MW-13	9/8/15	1305		GW	3	X					X	13									E60		
MW-13 D		1309		GW	3	X					X	14											
MW-7		1440		GW	3	X					X	15											
MW-16		1542		GW	3	X					X												
MW-16 MS		1545		GW	3	X					X	16											
MW-16 MSD	9/8/15	1547		GW	3	X					X												
MW-12	9/9/15	1542		GW	3	X					X	17		*									
MW-12 D	9/9/15	1551		GW	3	X					X	18		*									
QC TB 000915	9/9/15	1551		QC	2	X					X	19		*									
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input checked="" type="checkbox"/> 21 Day Standard	Approved By:			<input type="checkbox"/> NJ Reduced	<input type="checkbox"/> Commercial "A"			Federal Express ID # 801219535114 Lab Trip Blank Date 8/26/15 Time 0600 VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 2 compounds (acetone, chloromethane, MIBK, methylene chloride and xylene). For MW-17/18 also analyze for ethylbenzene and toluene. For MW-12 also analyze for PAH. Also, please provide report on CD ROM.															
<input type="checkbox"/> 14 Day	INITIAL ASSESSMENT 2A 17B			<input checked="" type="checkbox"/> NJ Full	<input type="checkbox"/> Commercial "B"																		
<input type="checkbox"/> 7 Days EMERGENCY	LAB VERIFICATION JK			<input type="checkbox"/> FULL CLP	<input type="checkbox"/> ASP Category B																		
<input type="checkbox"/> Other _____ (Days)				<input type="checkbox"/> Disk Deliverable	<input type="checkbox"/> State Forms																		
RUSH TAT is for FAX data unless previously approved.																							
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: 1 Victor H. Rivas				Date Time: 9/9/15/1729				Received By: FEDEX				Relinquished By: FEDEX				Date Time: 9-11-15 1440				Received By: [Signature]			
Relinquished by Sampler: 3				Date Time:				Received By: 3				Relinquished By:				Date Time:				Received By:			
Relinquished by Sampler: 5				Date Time:				Received By: 5				Relinquished By: Seal # 212, 214				Date Time: Preserved where applicat yes				Received By: JB			

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JC3254R: Chain of Custody

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CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JC3254
Accutest Quote #:

Client Information		Facility Information		Analytical Information																		
Anderson Mulholland & Associates Name 2700 Westchester Avenue Address Purchase NY 10577 City State Zip Terry Taylor Send Report to: Phone #: 914-251-0400		Anderson Mulholland and Associates Inc. Project Name Location Project/PO #: BMS: Building 5 Area FAX #: 914-251-1286		VOCs (Special List 3)																		
Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	Na2S2O8	None												
A-1R(4)	9/1/15	1246	NMR	GW	6	X					X	20										
A-2R(2)		1339	NMR	GW	6	X					X	21										
UP-1		1432	NMR	GW	6	X					X	22										
UP-2	9/4/15	1416	NMR	GW	6	X					X	23										
D-1R	9/7/15	1240	NMR	GW	6	X					X	24										
S-31R(2)		1342	NMR	GW	6	X					X											
S-31R(2)MS		1346	NMR	GW	6	X					X	25										
S-31R(2)MSD		1351	NMR	GW	6	X					X											
S-29R		1448	NMR	GW	6	X					X	26										
E-1R		1623	NMR	GW	6	X					X	27										
G-1R(3)	9/7/15	1731	NMR	GW	6	X					X	28										
Turnaround Information			Data Deliverable Information			Comments / Remarks																
<input checked="" type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.			Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____			<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms																
Federal Express ID # <u>8012 1953 5114</u> Lab Trip Blank Date <u>8/26/15</u> Time <u>0600</u> VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 3 compounds (acetone, benzene, ethylbenzene, toluene, MIBK, xylene, IPA and methanol). Also, please provide report on CD ROM.																						
Sample Custody must be documented below each time samples change possession, including courier delivery.																						
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:																	
1 <u>Weston M. Kline</u>	9/1/15/1729	1 <u>FEDX</u>	2 <u>FEDX</u>	9-10-15 1440	2 <u>[Signature]</u>																	
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:																	
3		3	4		4																	
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:																	
5		5	Seal # <u>212, 214</u>	Preserved where applical <u>yes</u>	On Ice: <u>yes</u>																	

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JC3254R: Chain of Custody

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Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

JC 3254

Accutest Quote #:

Client Information						Facility Information							Analytical Information							
Anderson Mulholland & Associates						Anderson Mulholland and Associates Inc.														
Name 2700 Westchester Avenue						Project Name							VOCs (Special List 3)							
Address Purchase NY 10577						Location														
City State Zip						Project/FPO #:														
Terry Taylor						BMS: Building 5 Area														
Send Report to: Phone #: 914-251-0400						FAX #: 914-251-1286														
						Collection				Preservation										
Field ID / Point of Collection		Date	Time	Sampled By	Matrix	# of bottles	HCL	NH ₄ OH	HNO ₃	H ₂ O ₂	None									
S-34		9/9/15	1311	NMR	GW	26 ml	X					X	29							
FB 090915		9/9/15	1058	NMR	GW	5 B	X					X	30							
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
				NMR	GW	6	X					X								
TB090915		9/9/15	1551	NMR	W	2	X					X	31			JOA QC VIAL				
Turnaround Information						Data Deliverable Information						Comments / Remarks								
<input checked="" type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.						Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____						<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms _____								
Federal Express ID # _____ Lab Trip Blank Date _____ Time _____ VOC's samples collected in 40 ml. glass vials, provided by the lab. Analyze for Special List 3 compounds (acetone, benzene, ethylbenzene, toluene, MIBK, xylene, IPA and methanol). Also, please provide report on CD ROM.																				
Sample Custody must be documented below each time samples change possession, including courier delivery.																				
Relinquished By Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By Sampler:		Date Time:		Received By:				
1 [Signature]		9/9/15/1729		1 FEDX		2 FEDX		9-10-15 1440		2 [Signature]		3				3				
Relinquished By Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By Sampler:		Date Time:		Received By:				
3				3		4				4		4				4				
Relinquished By Sampler:		Date Time:		Received By:		Seal #		Preserved where applical		On Ice:		5				5				
5				5		212, 214		yes		yes		5				5				

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Job Change Order: JC3254

Requested Date:	12/10/2015	Received Date:	9/5/2015
Account Name:	Anderson, Mulholland & Associate	Due Date:	9/24/2015
Project Description:	BMSMC, Former Tank Farm, PR	Deliverable:	FULT1
CSR:	tammym	TAT (Days):	14

Sample #:	JC3254-all	Change:	
Dept:			relog / retrieve for V8260TCL11
TAT:	14		

Above Changes Per: Terry Taylor

Date/Time: 12/10/2015 12:32:58 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

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JC3254R: Chain of Custody
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Attachment B
Vapor Intrusion Sampling Results (on CD)

Attachment C
Laboratory Analytical Reports,
Data Validation Reports, and
Groundwater Field Data Sheets
(On CD)